TO FIGHT THE CHOLERA

FOR QUARANTINE AND MARINE HOSPITAL SERVICE.

Danger that Cholera May Come-What fust Be Done to Prevent the Epidemic from Reaching Our Shores-Legislation to Check Immigration.

The Scourge and the Fair.

Will the cholera invade the United States in '93 to decimate our population and play havoc with the World's Fair? Can it be kept ou! altogether, or will it be allowed to get a footho.d and exceed the distressing experiences of last sum-mer? What sa'e guards can be provided, and what means will be the most effective? These are the questions uppermost in the public mind.

Various precautionary measures are suggested, and it will be strange indeed if, out of the abundance of ideas offered and experience brought to bear, some adequate system is not evolved speedily for the protection of the nation from the dreaded scourge. The British Government has determined to appoint a cholera survey with a view to preparing for the impending epidemic. Overwhelming pressure is now being exerted upon Congress from every section of this country to do its duty in the same regard, and it seems almost cer-tain that a wise measure, comprehen-sive enough to meet all the require-ments of the situation, will be framed and agreed upon. With ample precau-tions by the United States Government, under a thorough and uniform system and intelligent administration, so our official sanitary authorities say, there is a chance of keeping the cholera out, but without sufficient provision to meet and fight it the danger of its reappearance in virulent form is exceedingly imminent.

From present indications it would appear to be a foregone conclusion that whatever system may be agreed upon the present or ranization of the Marine Hospital service and Federal quarantine will be made its nucleus and basis, around which all necessary amplifications can be grouped and upon which all needful superstructures can be built. In the absence of any specific legisla-tion to the contrary, the task of pro-tecting the country will fall upon the present Federal quarantine service.

The Federal quarantine service is but imperfectly understood and appreciated throughout the country, and considerable irritation has resulted in consequence between it and certain local quarantine boards. The Federal quarantine and Marine Hospital Service were founded by law as far back as 1798 and 1799, and have been from time to time gradually extended since. The original Marine Hospital service was designed for the care of sick and disabled seamen at points remote from their homes. In 1871 it was reorganized and placed upon its present footing as a bureau of the Treasury Department, The old quaran-tine statute of 1739 provided for the ob-servance of State health regulations by Federal officers, and gave the President of the United States the power to purchase or erect quarantine warehouses and to remove certain branches of the government to places of safety during epidemies of contagious diseasee. By the law of 1878, to prevent the introduction of contagious and infectious diseases, vessels arriving from infected foreign ports are to be kept out, United States Consuls are required to report the state of health at such ports and to notify the Marine Hospital Service of the departure of infected vessels, and officers of State quarantine are empow-



HEADQUARTERS MARINE HOSPITAL SERVICE ered to act in emergencies as officers of the national quarantine.

QUARANTINE STATIONS. In this way the marine hospital service and the Federal quarantine were linked together. A National Board of Health was created in 1879, with limited duties and prerogatives, but by the refusal of Congress subsequently to provide for its expenses it ceased to have an active existence. By the act of 1888 eight Federal quarantine stations were established and placed under the con-trol of the marine hospital service. All of them are now in active operation. The stations themselves and the ramifled services connected with them form the Federal safeguards which the United States Government possesses against foreign infection at this time. The headquarters of the service are in Washington, D. C., in what is known as the "Butler" building, an imposing granite structure recently purchased by the Government, directly facing the Capitol on the south. There is the nerve center of the entire Federal quarantine and marine hospital service. From this building emanate all orders regarding the movements of quarantine vessels and the operations of the several stations, and there the whole intricate ma-



PARTYERS THEIR RESIDENCE DAWNERS.

A Management of the property series

the Federal and State regulations and the methods of their execution. The growing tendency toward contralization The law of 1878, it is true, gives extensive quarantine powers to the marine ere with the State and local quarantines. There is nothing in this proviso, however, to prevent the General Gov-

The quarantine process employed by the marine hospital service consists of: First, overhauling suspected vessels, carries with it the idea and purpose of their inspection, detention, and fumigamaking the national system paramount tion, the disinfection of passengers, and independent of the State systems. baggage or cargo, and the transfer of sick persons to the quarantine hospitals and immuring of suspects in barhospital service, but these powers are racks. The fumigating act prescribed restricted by a proviso that the national by the Treasury Department is perquarantine regulations must not inter- formed with chloride of mercury, sulphurous oxide and steam heat, together extension of lines along the northwith cleansing and flushing with sea ern frontier of China will greatly water. Not only are cargoes subjected ernment from exercising even greater to this disinfection, but baggage and quarantine restraints than the States personal effects, and also the persons of may impose, the principle being that certain classes of suspects. The proper while the States may erect a ten-foot vessels, lighters, launches, buildings,



may add to it five feet more if neces-

Of the eight Federal quarantine stations already established one is located at Cape Charles, with hospital at Fisherman's Island, Va.; another is located

barrier of defense the United States piers, wharves, and appliances for this work are provided at all the established quarantine stations.
Anticipating Invasion.

Last summer's cholera excitement was the first experience our national quarantine service has had with a South Atlantic quarantine, is on Sapolo of 1878. It is not known to the world, sound, with hospital at Blackbeard's but nevertheless it is a fact, that the Island, Ga.; still another, the Key West | marine hospital service foresaw the quarantine, with hospital attachment, is cholera invasion and prepared to meet on Dry Tortugas Island, Fia., occupy- it as far ahead as October, 1891, when



GULF STATION, CHANDELEUR ISLAND, MISS.

ing old Fort Jefferson; the fifth, called the pestilence prevailed only in Asiatic the Gulf quarantine, is on the Chande- Turkey. Steps were taken then at the leur Islands, twenty-three miles off the ports of Marseilles and Ghent, where coast of Mississippi, with hospital on rags were transhipped from the infected North Chandeleur Island. La.: the sixth territory for export to America, to proseis the San Francisco quarantine, the finest in the world, at Angel Island, fection. But irrepressible commercial Cal.; the seventh is at San Diego, Cal.; and the eighth and last one is at Port jurisdiction and want of coherence in

Townsend, Wash. Ports Protected.

The Cape Charles quarantine protects the cities and towns on the Chesapeake Bay and its tributaries, including he cities of Norfolk, Richmond and Hampton, Va., together with Washington and Baltimore. The Delaware breakwater quarantine protects Philadelphia and Chester, Pa., Camden, N. , and Wilmington, New Castle and Lewes, Del. The South Atlantic and Key West quarantines protect the southern coast; the Gulf quarantine the ports from Florida to Texas; the Port Townsend and San Francisco quarantines the upper Pacific coast, where there is danger of cholera from China and Japan; and the San Diego quarantine the lower Pacific coast, which must be guarded against infection from the ports of South and Central America and the Southern Pacific Islands.

The marine hospitals proper, which can be utilized in the treatment of isolated cases of cholera inland, are nineteen in number, grouped into eight separate geographical districts. The North Atlantic district includes three lantic district contains only one hos-pital, that on Staten Island, N. Y. The have been even thus partially success-

cute, through our consuls, a rigid disininterests, conflicts of authority and the quarantine regulations prevented absolute thoroughness in this work, so that when, in July and August last, the



FUNIGATING WHARF, DRY TORTUGAS.

pest invaded our own shores the quarantine authorities were obliged to put forth the most strenuous exertions to helped and strengthened many thouhospitals, located, respectively, at Boston, Mass., Portland, Me., and Vine-yard Haven, Mass. The middle At-afflicted France, Austria and Germany, South Atlantic district includes two, ful had not the President issued his one at Baltimore, Md., and one at Wil- proclamation suspending all immigra-



mington, N. C. Mississippi likewise includes three,

namely, at St. Louis, Mo., Memphis, Tenn, and Cairo, Ill. Then, there is the district of the great lakes, with hospitals at Chicago, Ill., and Detroit, Mich., and, lastly, the district of the Pacific, with hospitals at San Francisco and Port Townsend, Weah. In addition to the regularly established quarantine plants are the improvised camp at Fort Pulaski, at the mouth of the Savannah River tin., and Camp Low, minister of New York, of last summer's The this caution Flori

The quarantine service has at its dispossi a first of six finely requipped tesiels. Four are discalecting stramersthe Pastour, the Butters Ruch, the Weigh and the George M. Stornberg, chinesy of the system is supervised and drass with autonor formores banks and the running spring and nonner against other apparatus for histograms. The the levelar elem-Miles Twinspy objects managing stance The assumption is common that there are the Degree and the Chairs all other nectory expects could be be destructive Federal quasantine Exists: The Degree is in digto at the local time of the companion. But were breakfully with this group of the companion. But were breakfully

The district of the tion for twenty days. The stirring Gulf embraces three hospitals, at Key events of that period are still vividiy re-West, Fla., Mobile, Ala., and New Or-leans, La. The district of the Ohio comprises three also, one at Louisville, by., one at Cincinnati, Ohio, and one

Tr. Wyman, the Surgeon General in

at I vansville, Ind. The district of the charge of the Federal quarantine ser-



THE DAUGHD AT DULAWATE SHEARWATER.

tin will have to be waged throughout

LANCE & SEC. S. MALINA.

SIBERIA NOT A DESERT.

Its Valleys as Fertile as Those of West ern America-Great Railroad System. Siberia, coupled as its name is with stories of Russian barbarity, is not the barren, terrible land of limitless deserts which fiction and the drama have pictured it. The building of the trans-Siberian railway and the change the entire drama of civilization. The railroad from Vladivostock to the Ural Mountains will bring that great Russian naval station within fourteen days' journey of St. Petersburg, and along this route stations will rapidly grow into towns and offer opportunities for new and striking development.

Russia's enterprise, says the Hartford Globe, stimulates that of China, not only as a matter of competitive ambition but for strategic reasons. The railways now being surveyed and completed within the Celestial Empire are numerous, and to this end many foreign engineers are employed. Soldiers and convicts are largely employed as workmen, thus cheapening the cost of labor as far as possible. The trans-Siberian railway extends to a length of nearly 5,000 miles, and it is expected to cost \$200,000,000. It is divided into six sections, each section comprising three or more divisions, and the contracts for building is given to these, thus employing a large number of contractors for limited distances.

It is a mistake to suppose that Siberia is a desert, or a glacier, or a mountain fastness, or incapable of being made habitable. The valleys are level plains, and said to be as fertile as the western portion of the United States, and it is not unlike the West in the variety of its resources-in minerals, timbers and in at the Delaware breakwater, with hos- foreign infection in epidemic form since agricultural facilities. It is a marpital near Lewes, Del.; another, the the memorable yellow fever visitation velous treasure-trove of stored-up opportunities. Its wealth is practically unlimited. With the advantages of railroad communication and telegraph lines, a vast country is added to the world of civilization. The cultivation of the land and the introduction of all the elaborate machinery of enlightened life will, as scientists depict, modify the rigors of the climate, although in Southern Siberia even this obstacle does not exist.

Days of Small Things.

Long before the Revolution a young printer in Philadelphia, when he had taken off his working apron at night, used to sit poring over his dozen of old volumes by firelight. He soon knew them by heart, and hungered for more. But books were costly, and he had but little money.

He had eight or ten cronies-young men who, like himself, were eager for tribe. I dropped my bag of shells, crossing it in the opposite direction. knowledge. Ranging his books on a and hastened to the surface; but, in shelf, he invited his friends to do the the benefit of them all.

Ben Franklin thus laid the foundation of the first circulating library, and now one of the largest in this country.

Thirty years ago a kindly German pastor, moved to pity by the condition of the homeless orphans in the city in which he lived, took three of them into his own home, appealing to Christians for aid to feed and clothe them, and to educate them to useful, good citizens.

Three great orphan asylums in difrent cities of the West are the result of this little effort.

A good woman in Philadelphia, twenty odd years ago, asked two or three of her friends to join her in renting a little room where they could meet occasionally to drink a cup of tea, and consult together how to help other women whose lot in the world was harder than their own.

the stately New Century Club with its collateral Guilds, Classes and

Many readers who live in inland towns are bewildered when they visit the cities by the great libraries, hospitals, associations for charity, education or mutual aid, and wish hopelessly they had the same helps to broader and higher life in their own homes.

Let them begin with a little effort, and persist in their good work. Some good will come from every attempt of this kind. The most firmly grounded institutions are those which grew out of poverty slowly, and were not built to order.-Youth's Companion.

How Words Change,

Language is the result of ages of growth. Word after word has been idded to the previous stock-some of them new inventions, as new things have been discovered or brought into use, others but perversions or variations of terms already familiar. The process of word-making and wordtransformation has been carried on. not by scholars only, but by the common people, with the natural result that many words have curious histories. As a writer in Chambers Journal remarks, "People must have words which they can understand and recall," and they are not scrupulous as to the means by which they obtain

Take the common word "titmouse." chickadee. The first syllable twans samething small, and the two together ought to mean a little toluse. But the word was formerly "itupose," "moss" meaning a little bird. Somebody-there is no knowhig who-changed the name to "titmouse." The new, form tickied the popular ear; by and by It was goneforce went out of use altogether, and marry pair girls. the plural which sugar to be "tipto please, " levame "Hittings

Long ago when a certain acticle. to risk in England, it was there's by dones.

its Dutch name "huizenblas," that is, "sturgeon-bladder." The term was a meaningless one to English ears, and by some means or other was transformed into the word which we all know, "isinglass." The change was precisely like that which in some quarters has turned "asparagus" into

sparrow-grass." In the same manner the old word "berfry," which means simply a watch-tower, was transformed into "belfry." It became the custom to hang bells in such towers, and by common consent a change of spelling followed.

What is the derivation of the word "steelyard"? Most readers would rereply without hesitation that it must have been invented as the name of a certain familiar instrument for weighing, an instrument made of steel, and about three feet in length.

In point of fact, however, the word meant in the beginning nothing but the yard, or court, in London, where the continental traders sold their steel. In this yard, of course, there was some kind of balance for weighing the metal—a steel-yard balance.

Language is full of such cases. "Blindfold" has nothing to do with the act of folding something over the eyes, but is "blindfelled," or struck blind. "Buttery" has no connection with butter, but is, or was, a "bottlery," a place for bottles.

A "blunderbuss" was not an awkward or inefficient weapon, but on the contrary was so terrible as to be called a "donderbus," that is to say, a "thunderbox" or "thunder-barrel." The advance in the art of war is happily-or unhappily-typified by the fact that a weapon once so terrible has become an object of ridicule. Will the world ever find our present iron-clads and mortars nothing but vented, declared his purpose of asthings to laugh at?

Enemies of the Diver. The diver, as the reader may imagine, gets many scares when below. one, is sufficient to make the strongest heart quake, in spite of the assertion that sharks have never been known to attack a man in dress. Neither is the sight of a large turtle comforting when one does not know exactly what it is, and the coiling of a sea snake around one's legs, although it has only one's hands to bite at, is, writer in the Century. It seems to some one asked his opinion of it, "I pearl shell, as it is only when picking one day be a man." them up that any one has been known off, being unable to work for three his enthusiasm. days, and suffering intense pain the

much bleeding of the bitten part, and him, saying, gently: thus expelling the poison. ing has upon those who practice it is not accept you, if I would have my the inevitable bad temper felt while conscience at peace." on the part of the tender or the boys mutilated. above, will often cause the temper to He is still one of the heroes of Clubs of workingwomen, which have rise. I have sometimes become so France, and an inscription to his angry in a similar way that I have memory may be read on the spot given the signal to pull up, with the where he made his fatal attempt. express intention of knocking the heads off the entire crew; but as the surface was neared and the weight of

Servant Has the Best of It.

prosecuted by the British Royal La- only of giving a rather definite imbor Commission indicates that in pression. But the individual is rela-England the servant is far better off tive. As a musical instrument gives in regard to facilities for local re- out one degree of harmony or another, dress than is the employer, and that or even discord, according to the legislation would not bring these two touch and skill of the player without

classes closer together.

Light Mortality. proudly upon the extraordinary same quality, according to the person, 21,000 inhabitants, but one of whom whom he acts. Character in its funddied in the twenty-four days follow- amental basis is not fluctuating. ing Oct. 17. The undertakers are The honest man does not become disnot joining in the jubilee to any ex- honest, nor the truthful man false,

tice Whis!

Electricity, where unretarded by atmospheric influences, travels at the rate of 288,000 miles a second. Along a wire it is, of course, vastly slower; a perceptible period of time is occupied by the electric current in sending telegrams over long distances.

A Nubbe Bemmant.

men who fought under Napoleon at stead, dictatorial and trying. Which Waterloo are now alive and in

May They All be bucker. a ly accepted; then the nit and true young men in Venice are prodped to and reaction of temperament.

Winel a bifference!

A SPOUTING ROCK & Salt Water Ocean Geyser at Sants

Cruz. One of the strangest things to be seen at Santa Cruz these days, says the San Francisco Examiner, is a rock through which the sea water boils and bubbles furiously. The spouting rock was developed during the recent great storm. Every two or three minutes, alternately, a volume of water sixty feet high shoots



into the air. To view it wholly from the surface it appears to be a gigantic geyser, compared with which those of the Yellowstone Park are at times insignificant. The phenomenon is explained easily. The constant action of the breakers has worn a tunnel through the soft rock from the ocean to the top of the cliff, and the power of rushing waves forces the water in it to the surface with a sound like the roar of artillery.

Pilatre de Rozier.

The first aeronaut who fell victim to his desire of exploiting the upper air was Pilatre de Rozier who, a few months after the balloon had been incending in one and allowing it to take him whither it would. The French king, however, frowned upon the project, and sent Pilatre word that the experiment should be made A fifteen-foot shark, magnified by by sending up two condemned crimithe water, and making a bee-line for nals. But Pilatre indignantly refused this offer. "What!" said he, "shall vile criminals have the glory of being the first to navigate the fields of air? Never, while Pilatre de Rozier draws breath!"

He agitated the subject until the entire court became interested in his favor, and then, at last, the King yielded, and Pilatre, in November, to say the least, unpleasant. A little 1783, made a perfectly successful asfish called the stonefish is one of the cent. Benjamin Franklin was a witenemies of the diver, continues a ness of the spectacle, and said, when make its habitation right under the have seen a child horn which may

Two years after, another aeronaut to have been bitten. I remember crossed the Channel from Dover to well the first time I was bitten by Calais, and Pilatre, spurred on by this spiteful member of the finny jealousy, declared his purpose of

His friends endeavored to dissuade this short space of time, my hand him from the project, believing that same, that each of them might have and arm had so swollen that it was the machine had not been sufficiently with difficulty I could get the dress perfected, but nothing could calm

In June a balloon was ready, but it while. Afterward I learned that may easily be seen that Pilatre was staying down a couple of hours after not very confident of success, since a bite will stop any further discom- he pushed back an army officer who fort, the pressure of water causing would have stepped into the car with

"Monsieur, in our present enter-One of the strange effects that div- prise we are sure of nothing. I can-

working at the bottom; as this ir- The balleon rose majestically and ritability passes away as soon as the tended at once toward the sea. Pressurface is reached again, it is only ently it turned, but again drifted reasonable to suppose that it is caused back in the direction of the water. by the unusual pressure of the air in- Then it is probable that Pilatre enside the dress, affecting probably the deavored to descend, in order to reach lungs, and through them the brain. a more favorable current of air, but My experience has been that while in opening the valve, according to one below one may fly into the most vio-lent passion at the merest trifle, for rent in the balloon itself. Instantly instance, the life-line held too tight he was dashed to the ground, a disor too slack, too much air or too lit tance of several thousand feet, and Out of that little room has grown | tle, or some imaginary wrong-doing | was found there, dead and frightfully

Other People's Eyes.

While a due regard for the opinions air decreased my feelings have grad- and convictions of other people is a ually undergone a change for the bet- saving grace of life, there is no ter, until by the time I had reached greater mistake than to habitually the ladder and had the face glass un- contemplate one's friends or acscrewed I had forgotten for what I quaintances through the eyes of other people. With regard to events the case is quite different. A fact is a fact. An occurrence is largely a An investigation which has been fixed and definite thing, and capable changing its essential character at all, so in a far greater way does the individual reveal one set of qualities Vienna papers are commenting or another, or different aspects of the healthfulness of Olmutz, a city of with whom he converses or with according to the company he is with; but in all the range of matters per-

must keep his own. You have found So-and-so to be esperially invigorating and helpful in influence, and remarking this to your Only eight of the 69,000 French, neighbor, you are told that he is, in-

taining to harmony of temperament

and that includes many salient

qualities-one is to some extent what

he is made by his associates, and so,

to keep the true focal vision, one

ts the trues or even the true view? The probabilities are that each is true to the individual who sees it, for manifestations of character are The members of a club of rich relative, and depend on the action

SUL WILLIAM VERNUE HARRISTON must be awarded whatever praise is Away back to the year 1313 oggs due her his investion of the that Should be at the Capit hartne queezes safety witness the queeze walle or stongeness that the Lieuters at 5 proces for two chiral or the thirty Cink